

# Instructions for Supplemental Permit Application Form MANUFACTURING OR PROCESSING OPERATIONS

(Instructions for completing Form No. DEP-AIR-APP-201)

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All applicants for a permit for a stationary source, as defined in Section 22a-174-1 of the Regulations of Connecticut State Agencies (RCSA), must complete the appropriate supplemental application forms to provide information to quantify the emissions from each source or point of emissions which makes up that stationary source. When applying for a permit for a manufacturing or process *line* which has a series of emission points, *each of these manufacturing or process lines is considered a unit while the series of emission points which make up that manufacturing or process line are considered subunits.*

This supplemental application form must be completed for new or modified sources such as: chemical reactors and mixers in chemical manufacturing; food or agricultural processing; metal production; petroleum processing; pulp and paper production; rubber and plastic production; and textile processing.

Please complete a separate form for each distinct process line. (You may reproduce this form as necessary.) Complete each item as appropriate. If a specific item does not apply to your situation mark it N/A (not applicable). If additional space is needed to answer a question stated in the application, attach separate sheet(s) as necessary, clearly identifying the applicant name, form name and item number, the process line and subunit number. *Attach a process flow diagram indicating all units, air pollution control equipment and stacks, as applicable. See a sample process flow diagram in the main instructions (DEP-AIR-INST-200) for guidance.*

You must also complete the Air Pollution Control Equipment form (DEP-AIR-APP-210) to provide details of the air pollution control equipment used, the Stack Parameters form (DEP-AIR-APP-211) to provide parameters of the stack(s) associated with each unit, *and* the Unit Emissions form (DEP-AIR-APP-212) to provide emission rates of each unit.

**Note: The data provided in these forms (such as maximum anticipated fuel usage, maximum operating hours, etc.) will be used to define the operating limits in your permit.**

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*Process Line Number:* Identify the reference or unit number assigned to the distinct process line. Use the same numbering system that was used in completing Part I: Application Type of the form **Permit Application for New Source Review Stationary Sources of Air Pollution** (DEP-AIR-APP-200). Please use a consistent reference number for each process line throughout the application package. Please complete a separate form for each distinct process line.

*Process Description:* Describe the process or end product.

Indicate (**AYes@** or **ANo@**) whether the process line is subject to Title 40 of the Code of Federal Regulations (CFR) Part 60, New Source Performance Standards (NSPS) or Title 40 CFR Part 63, Maximum Achievable Control Technology (MACT). If the answer is yes to either Part 60 or Part 63, please specify the appropriate subparts.

1. *Subunit Number* - Assign a reference number to each emission point or unit which makes up the distinct process line. Base this reference number on the same numbering system that was used in completing Part I: Application Type of the form *APermit Application for New Source Review Stationary Sources of Air Pollution* (DEP-AIR-APP-200). For example, if the number assigned to a distinct process line is U1, the subunits which make up this particular process line would be U1a, U1b, etc. Use separate rows to identify each distinct piece of equipment. Enter the number in the subunit number column (1) on both pages.
  2. *Make and Model* - List the manufacturer, model number and serial number, if available, for each subunit in the process line. This information is specified by the manufacturer and can often found on the equipment nameplate. If unknown, this information can be obtained from the manufacturer.
  3. *SubUnit Function* - Describe the subunit's function, e.g., blending, reacting, filtering, etc.
  4. *Continuous or Batch?* - Indicate if the process is continuous or batch by placing a "C" or "B" in the space provided.
  5. *Hours per Batch and Batches per Day* - If a batch process, indicate the total amount of time that the equipment operates in one complete operation in hours per batch. Also indicate number of batches per day.
  6. *Annual Production by Quarter* - Estimate the percentage of annual production for each quarter of the calendar year.
  7. *Maximum Operating Schedule* - Estimate your maximum operating schedule in: hours per day, and hours per year.
  8. *Construction Date* - List each subunit's actual or anticipated construction date. Please refer to the definition of *ABegin actual construction* in RCSA Section 22a-174-1 in order to properly complete this item.
  - 9a,b. *Raw Materials Used and Amount Used* - List all raw materials used in the subunit, e.g., hydrochloric acid. For each raw material, indicate the maximum amount used in the subunit on an hourly basis and specify the measurement units, e.g., 40 pounds per hour, etc. If additional space is needed to answer this item, attach a separate sheet as necessary, clearly identifying the applicant name, form name and item number, and unit number.
  10. *List of Products* - List unit's end products, e.g., ammonium chloride, ethyl alcohol. If additional space is needed to answer this item, attach a separate sheet as necessary, clearly identifying the applicant name, form name and item number, and the process line and subunit number.
  - 11a,b. *Maximum Hourly and Annual Output* - List the maximum hourly and annual end product output of each subunit and specify the measurement units, e.g., pounds per hour and tons/year, etc.
- Note:* You need to complete the second page of this form only if *both*:
- the process involves a fuel burning source which is *not currently permitted*, **and**
  - the primary purpose of the fuel burning source is *not* for heat or power generation. (If the primary purpose of the fuel burning source is for heat or power generation, complete the Fuel Burning Equipment Form (DEP-AIR-APP-209))
- A burner may supply heat to one or more units.

12. *Fuel Type for Process Heat* - If fuel is burned to provide process heat, list all types of fuel to be used, e.g., #2 oil, natural gas.
13. *Rated Burner Capacity* - Indicate the process heat burner's maximum design heat input in BTU/hour. This information is specified by the manufacturer and can often be found on the equipment nameplate. If unknown, this information can be obtained from the manufacturer.
- 14a-c. *% Sulfur, Nitrogen and Ash* - List the sulfur, nitrogen, and ash contents by weight % on a dry basis in the fuel. These can be obtained from your fuel dealer.
- 15a,b. *Hourly and Annual Fuel Usage Rates* - Indicate the maximum anticipated hourly and annual fuel usage rates. **NOTE: These figures will be used to define the operating limits in your permit.**